

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P840480

Luminaire Tested: **LD6C05D010 EU6059050 6LBCSSQMMS**

Issue Date: 5/25/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P840480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209457)
Test Lab: INNOVATION CENTER
Issue Date: 5/25/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C05D010 EU6059050 6LBCSSQMMS
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 6LBCSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

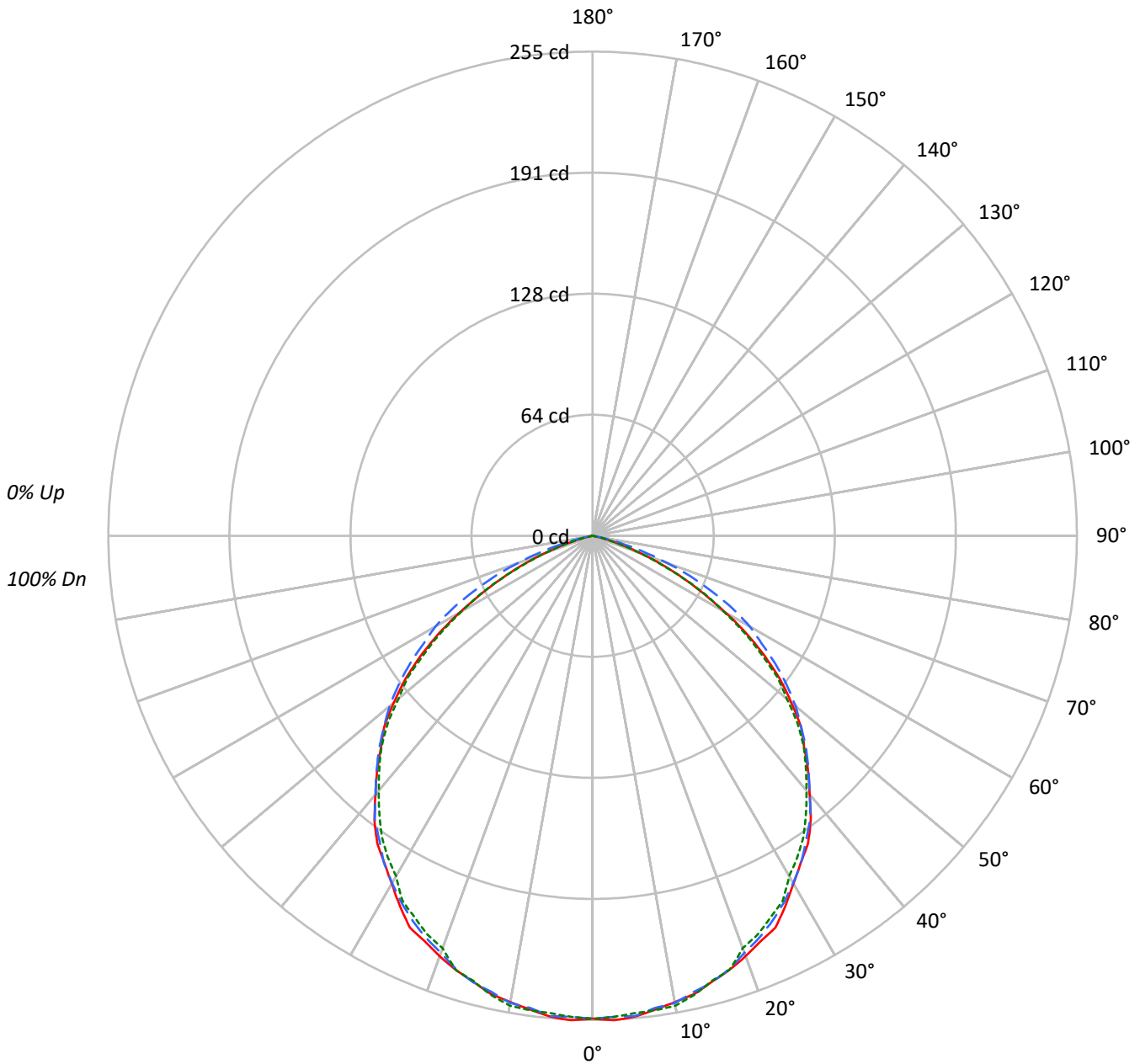
Lumens per Lamp: N/A
Luminaire Lumens: 614.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P840480

CATALOG NUMBER: LD6C05D010 EU6059050 6LBCSSQMMS

Luminous Intensity Polar Plot





TEST NUMBER: P840480

CATALOG NUMBER: LD6C05D010 EU6059050 6LBCSSQMMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100				
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87				
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75				75				
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64				64				
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56				56				
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49				49				
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43				43				
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38				38				
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34				34				
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31				31				
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28				28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10949	10949	10949
5°	10991	10974	10909
10°	10904	10921	10987
15°	10836	10849	10818
20°	10795	10708	10589
25°	10817	10637	10532
30°	10515	10500	10291
35°	10391	10291	10171
40°	9993	9993	9847
45°	9590	9681	9572
50°	9143	9344	8942
55°	8310	8813	8107
60°	6941	8232	6846
65°	5308	7030	5277
70°	3311	5199	3349
75°	1248	2811	1181
80°	99	471	99
85°	0	0	0



TEST NUMBER: P840480

CATALOG NUMBER: LD6C05D010 EU6059050 6LBCSSQMMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.1	3.9
10°-20°	68.6	11.2
20°-30°	103.2	16.8
30°-40°	122.1	19.9
40°-50°	121.8	19.8
50°-60°	101.0	16.5
60°-70°	59.0	9.6
70°-80°	14.1	2.3
80°-90°	0.1	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	195.8	31.9
0°-40°	317.9	51.8
0°-60°	540.8	88.1
0°-90°	614.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	614.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	254	254	254	254	254	
5°	254	253	254	253	252	24
15°	243	243	243	242	243	69
25°	228	225	224	223	222	104
35°	198	196	196	195	194	123
45°	158	158	159	157	157	122
55°	111	115	117	114	108	98
65°	52	59	69	58	52	52
75°	8	11	17	11	7	10
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P840480

CATALOG NUMBER: LD6C05D010 EU6059050 6LBCSSQMMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3
2.5°	255.4	253.9	255.1	252.8	254.3	252.8	253.2	252.4	253.9	253.6	253.2
5°	254.3	254.7	253.9	254.7	253.6	252.4	253.6	252.8	250.6	253.9	253.2
7.5°	251.7	252.1	251.3	252.4	251.7	250.2	253.2	250.9	250.6	250.9	252.4
10°	249.4	250.2	249.8	249.4	249.8	249.8	249.1	247.9	249.1	249.8	249.4
12.5°	247.2	248.3	247.6	246.8	246.1	246.4	247.2	245.3	245.3	246.1	248.3
15°	243.1	243.8	244.2	242.7	242.7	243.1	244.6	241.6	243.1	243.4	243.8
17.5°	239.7	240.1	240.1	238.9	239.7	238.6	239.7	238.2	239.7	239.3	240.1
20°	235.6	236.3	235.6	235.6	234.8	235.2	235.2	235.2	234.1	233.7	234.4
22.5°	231.1	231.1	230.3	231.1	230.3	229.9	231.8	228.8	231.8	229.2	231.4
25°	227.7	225.8	224.7	224.3	225.8	224.3	225.1	223.9	224.7	223.9	224.3
27.5°	219.8	218.7	218.3	218.7	218.7	218.3	219.8	215.7	218.3	217.9	217.9
30°	211.5	211.5	212.3	211.5	212.3	211.2	212.7	209.3	211.5	211.2	211.5
32.5°	204.1	204.4	204.4	205.2	204.1	204.4	204.4	203.3	204.1	204.4	203.7
35°	197.7	195.8	195.8	195.8	195.8	195.8	196.6	195.4	196.6	195.8	195.8
37.5°	188.7	186.8	186.8	186.4	188.3	187.2	189.0	187.5	187.5	188.3	188.3
40°	177.8	178.5	177.4	178.9	178.5	177.0	180.4	178.2	179.7	177.8	179.3
42.5°	168.0	168.4	168.0	167.7	169.2	168.8	170.3	168.8	168.4	168.4	171.0
45°	157.5	157.5	157.5	158.7	157.5	157.9	159.4	158.7	159.4	159.0	161.7
47.5°	148.9	147.0	146.7	148.9	148.5	148.9	148.9	149.3	149.7	148.9	150.0
50°	136.5	135.8	135.8	136.2	136.5	137.3	138.4	139.2	138.4	139.5	139.9
52.5°	124.5	123.8	124.2	125.7	126.4	126.0	127.9	128.3	127.9	128.7	128.7
55°	110.7	109.9	111.0	112.9	114.0	115.2	117.0	115.5	117.0	117.4	117.8
57.5°	96.4	96.0	96.4	98.3	99.4	102.0	105.0	105.0	106.5	105.4	106.5
60°	80.6	80.6	82.2	83.3	86.3	88.2	91.1	92.6	94.2	95.6	94.9
62.5°	65.6	66.0	67.1	69.8	71.6	74.3	77.6	79.1	81.8	83.3	82.5
65°	52.1	52.1	52.9	55.1	57.0	60.4	63.4	66.8	68.3	69.0	69.4
67.5°	39.0	38.6	40.1	41.6	43.5	46.9	50.3	52.1	54.8	55.5	55.1
70°	26.3	26.6	27.4	28.9	31.1	33.8	37.5	39.0	40.5	41.3	40.5
72.5°	16.5	16.5	16.9	18.4	19.9	21.8	24.4	25.9	27.8	28.1	27.4
75°	7.5	7.5	8.3	9.0	10.1	11.6	13.5	14.6	15.7	16.9	16.9
77.5°	1.5	1.9	2.3	2.3	3.0	4.1	5.2	6.4	7.5	7.5	7.5
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.1	1.9	1.9	1.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P840480

CATALOG NUMBER: LD6C05D010 EU6059050 6LBCSSQMMS

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3
2.5°	254.3	256.6	254.3	253.2	254.7	254.3	253.2	253.6
5°	253.2	253.9	254.7	251.7	253.6	253.9	253.2	252.4
7.5°	252.1	252.4	252.1	251.3	251.3	251.3	252.1	252.1
10°	251.7	250.6	248.7	247.6	248.7	248.7	248.3	251.3
12.5°	246.8	248.3	247.2	244.9	247.2	246.8	246.8	247.6
15°	243.1	243.1	243.8	240.8	242.3	241.9	241.9	242.7
17.5°	239.3	239.3	238.9	238.2	237.8	238.9	237.8	239.7
20°	234.1	234.8	237.1	233.3	234.4	233.3	233.3	231.1
22.5°	227.7	231.4	229.6	229.2	228.8	229.2	229.9	227.3
25°	223.6	223.6	224.3	222.1	222.1	222.8	222.4	221.7
27.5°	217.9	217.5	217.2	216.4	218.3	216.8	216.8	216.8
30°	210.1	211.2	210.8	208.9	211.2	210.4	209.3	207.0
32.5°	203.3	204.8	202.6	202.2	201.8	202.2	202.6	200.7
35°	195.0	195.4	195.4	193.9	194.3	193.9	193.2	193.5
37.5°	187.5	187.2	185.3	184.5	184.9	184.9	185.3	184.5
40°	177.0	178.2	178.2	175.6	176.3	175.6	175.6	175.2
42.5°	168.4	168.8	167.7	166.5	166.5	166.2	165.4	166.2
45°	159.4	159.0	157.9	156.8	156.8	156.4	155.7	157.2
47.5°	149.3	148.5	148.2	146.7	146.7	144.4	144.8	146.3
50°	139.2	138.4	136.9	136.2	135.0	133.9	133.5	133.5
52.5°	127.2	127.2	125.7	124.2	123.8	123.0	122.3	122.7
55°	116.7	116.7	115.5	112.9	111.4	109.5	108.4	108.0
57.5°	104.7	103.9	101.6	98.7	97.1	95.6	94.5	94.5
60°	92.6	90.8	88.5	85.9	83.3	80.6	79.9	79.5
62.5°	79.5	77.6	73.5	70.5	68.6	67.1	65.6	66.8
65°	66.4	63.8	60.0	57.0	55.1	52.9	51.8	51.8
67.5°	52.5	49.9	46.1	43.1	41.3	39.8	38.3	38.3
70°	38.6	36.8	33.4	30.8	29.3	27.0	26.6	26.6
72.5°	26.3	24.0	21.4	19.5	18.0	16.5	15.7	15.4
75°	14.6	13.1	11.3	10.1	8.6	7.9	7.1	7.1
77.5°	6.0	4.9	3.7	3.0	2.3	1.9	1.5	1.9
80°	1.1	0.8	0.4	0.4	0.4	0.4	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°









(END OF REPORT)